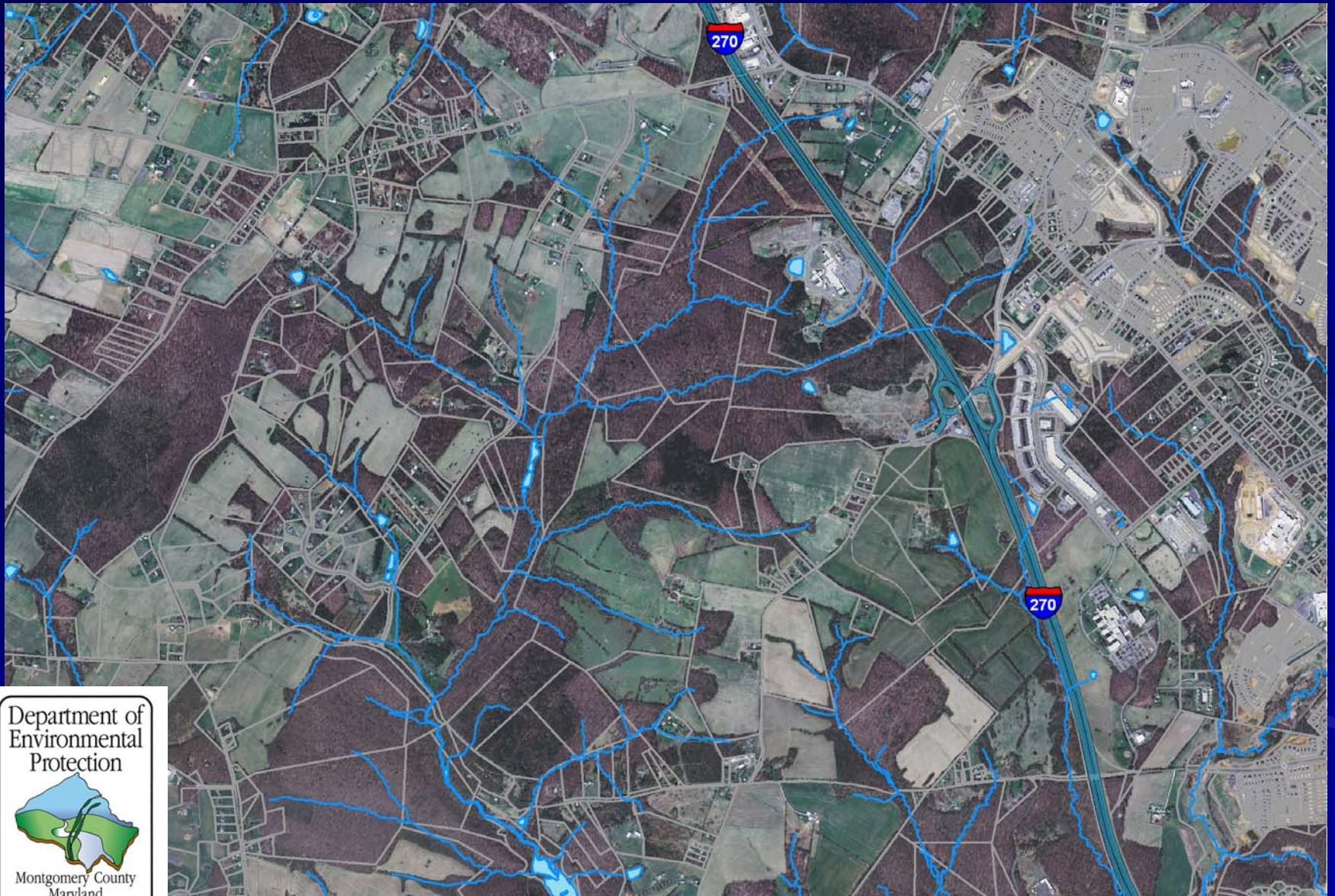


Ten Mile Creek Watershed



Department of
Environmental
Protection



Montgomery County
Maryland

Stream Quality Conditions 2001-2005

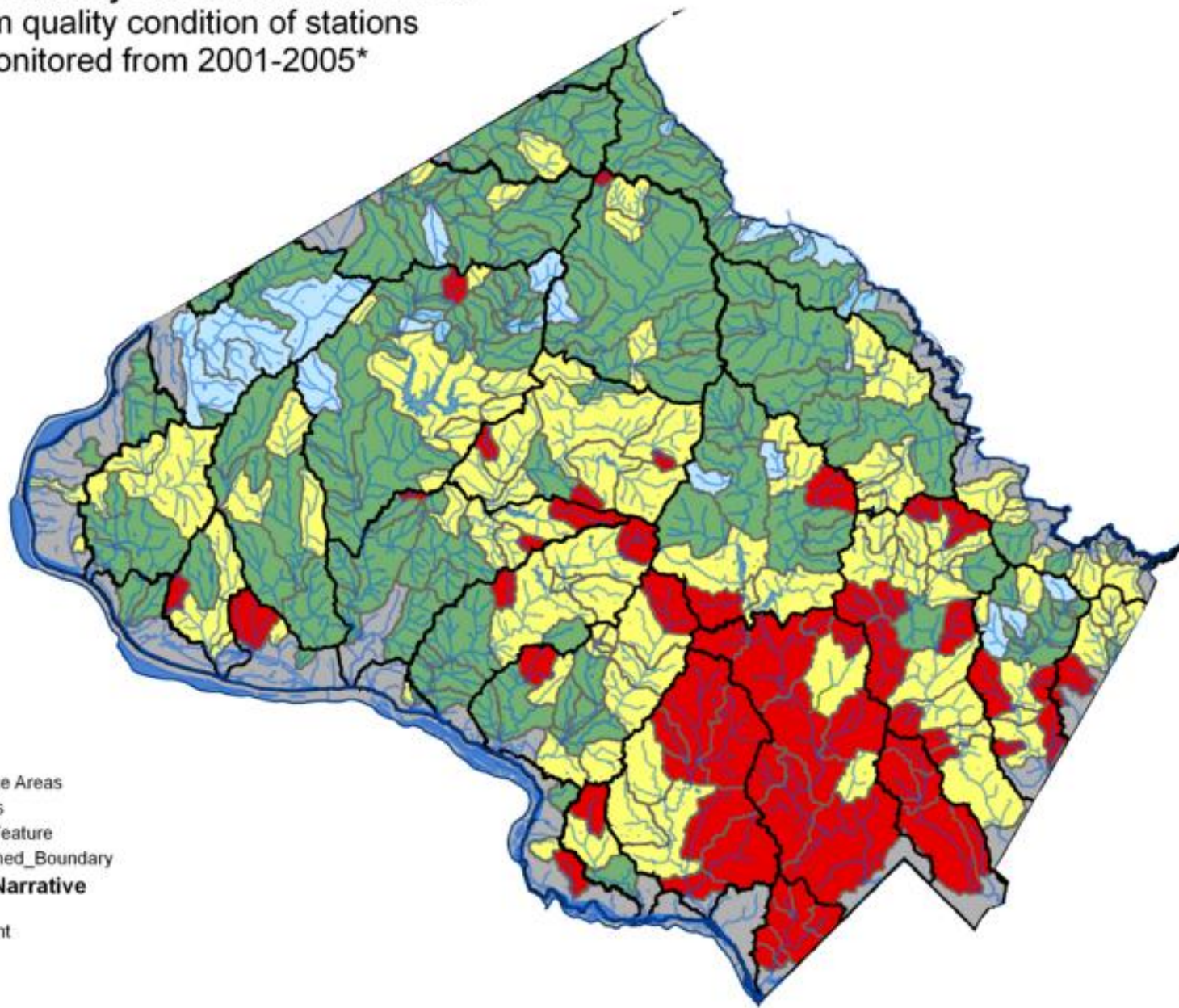
Stream quality condition of stations
monitored from 2001-2005*

Legend

- Drainage Areas
- Streams
- Water Feature
- Watershed_Boundary

AverageNarrative

- Excellent
- Good
- Fair
- Poor
- Not Monitored



*Horsepen Branch was monitored in 2000

Background

- Clarksburg Master Plan describes Ten Mile Creek as
 - Fragile
 - Sensitive
- Small, headwaters watershed
- Overall, land use has changed very little

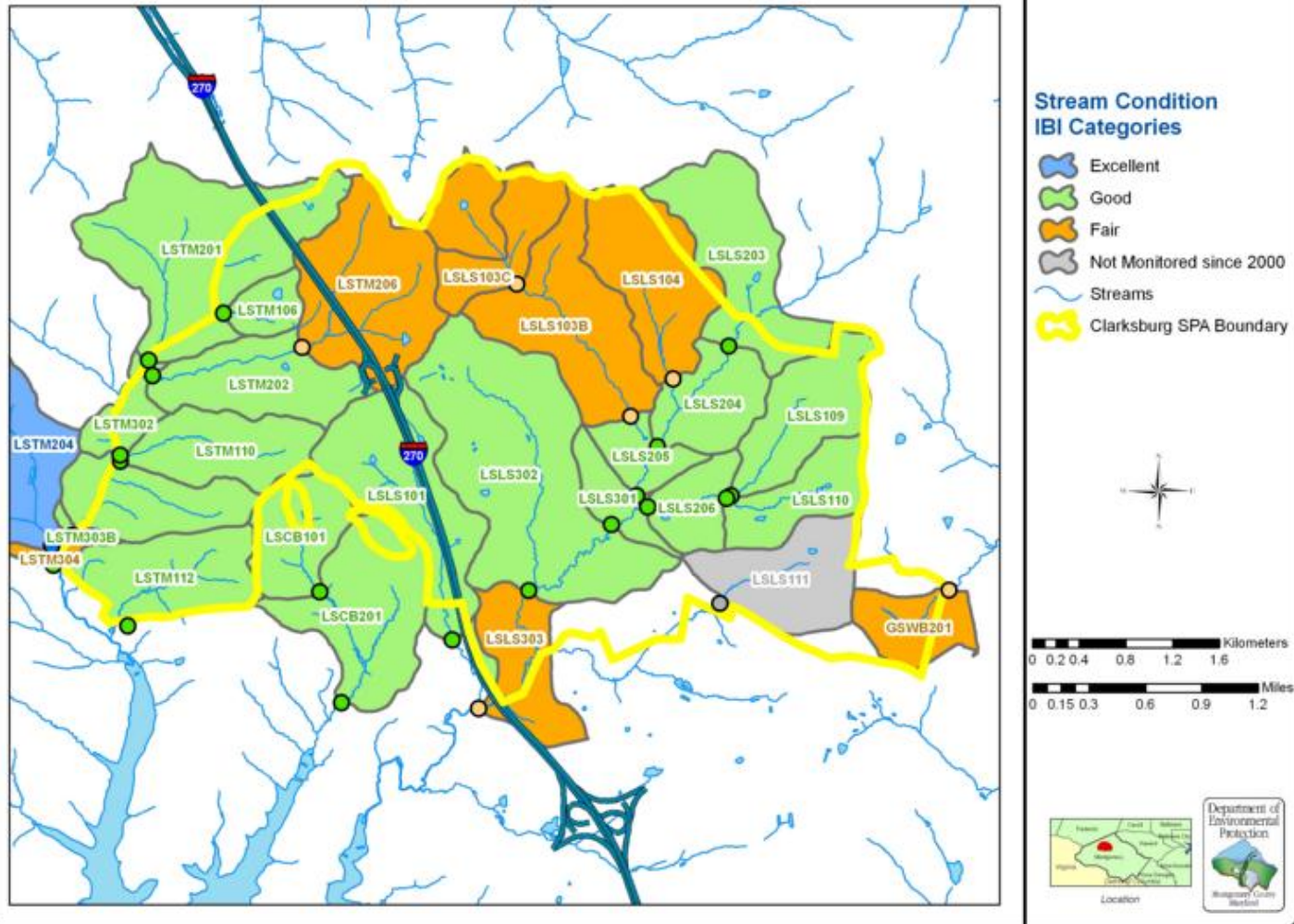
Why Fragile?

easily broken, damaged; need for careful handling

- Headwater stream watershed – each tributary is vital
 - Maintain summer base flows
 - Minimize response to storms
 - Function as refugia
 - Maintain cool water temperatures
- High quality biological communities

Easily Damaged

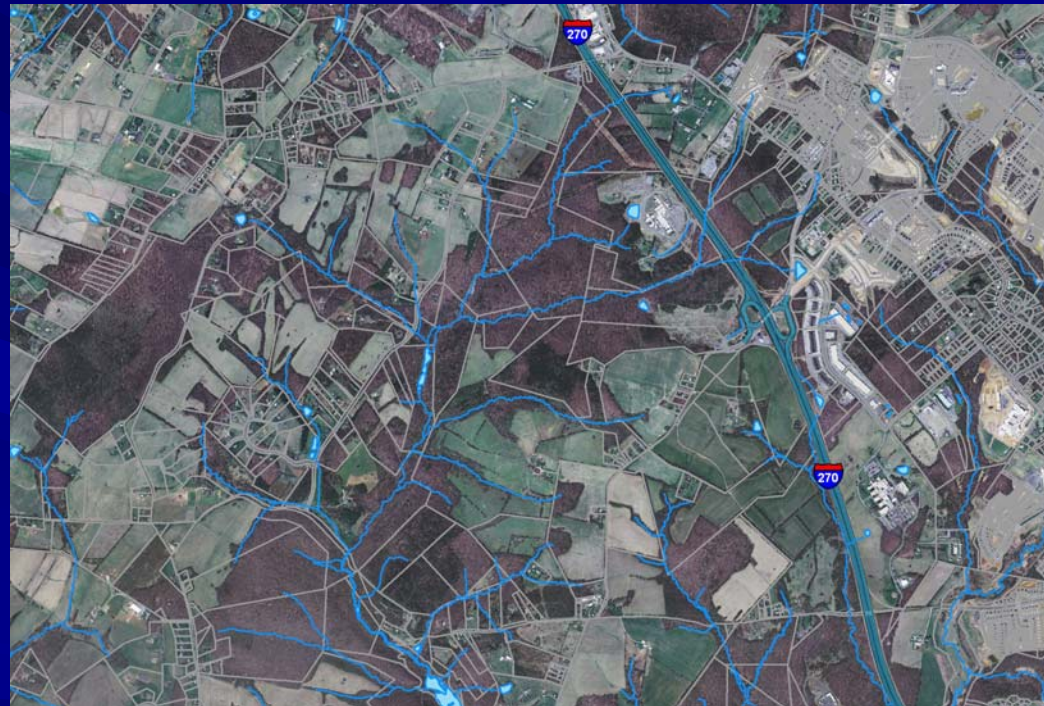
Clarksburg SPA - Average Stream Conditions 2006-2007 (Current)



Why Sensitive?

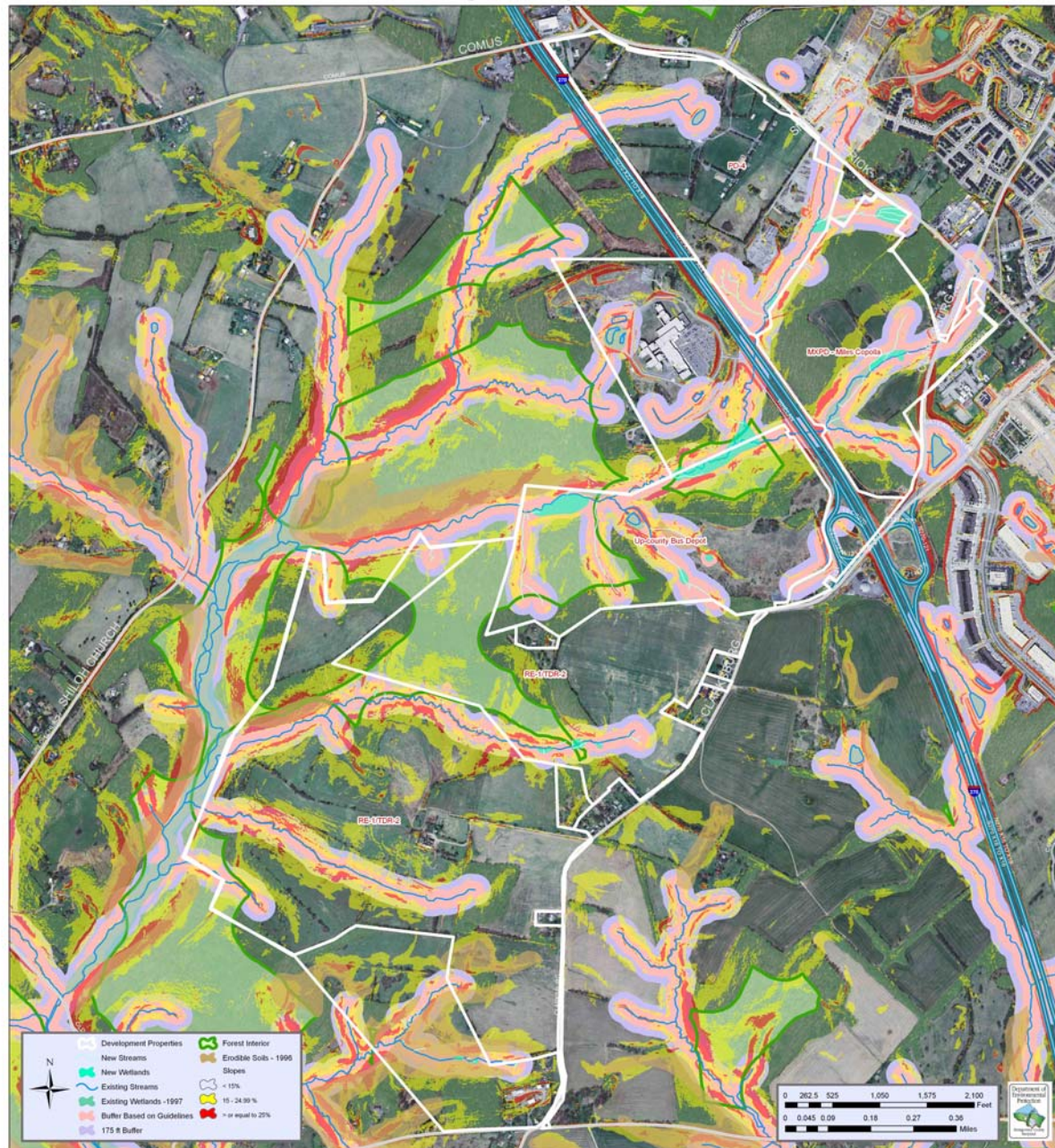
Highly Responsive, Easily Damaged or Hurt

- Many intermittent and ephemeral streams.
- Headwaters, wetlands, springs and seeps critical to watershed health





Environmentally Sensitive Features with Buffers in Ten Mile Creek Working Draft - April 28 2009



Indicators of Headwater Stream Health

Aquatic insects, herpetofauna





Cool, Clean Water Indicators



Summary

- Fragile, sensitive headwater streams
- Supports very healthy biological communities – indicating excellent water quality
- Little change in overall land use
- Land use practices that may work elsewhere – may have greater impact to Ten Mile Creek

SPA Observations

